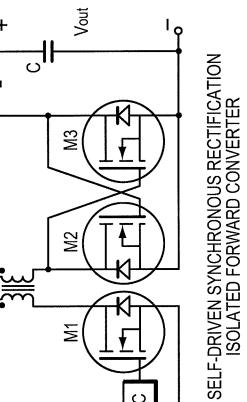
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IC-DRIVEN SYNCHRONOUS RECTIFICATION ISOLATED FORWARD CONVERTER

PRIOR ART

FIG. 1A PRIOR ART



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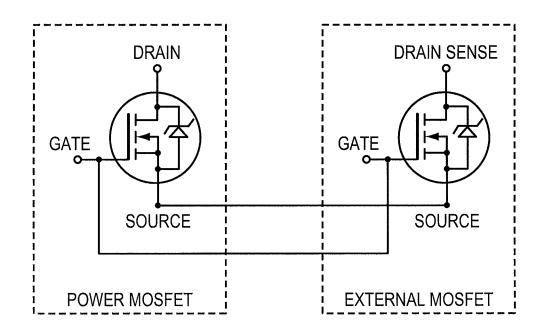
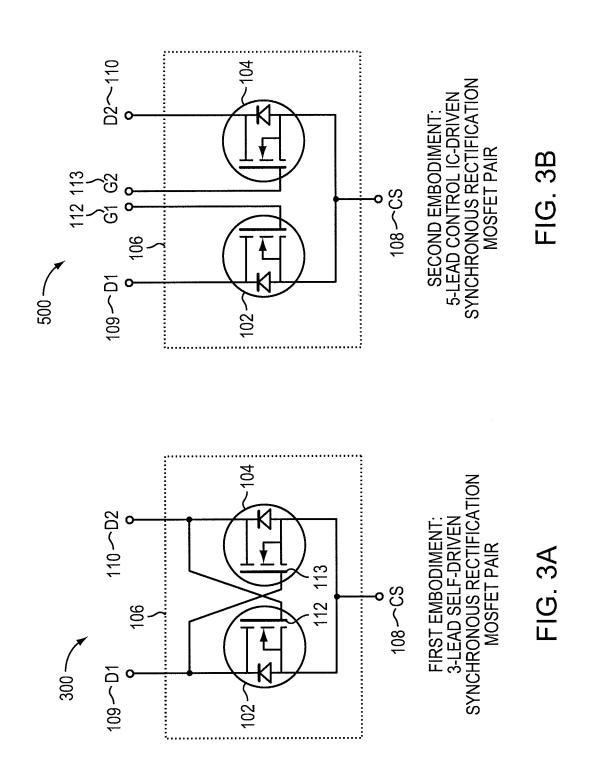
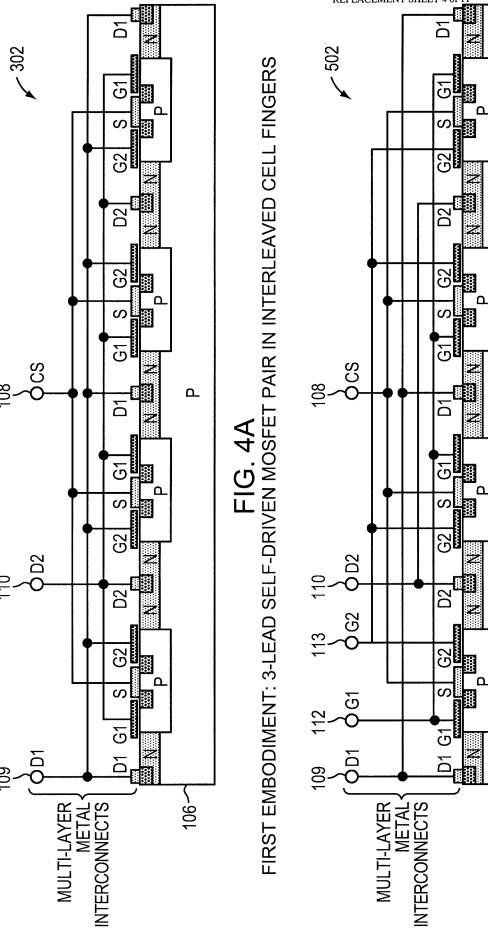


FIG. 2 PRIOR ART

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SECOND EMBODIMENT: 5-LEAD EXTERNAL-DRIVEN MOSFET PAIR IN INTERLEAVED CELL FINGERS FIG. 4B

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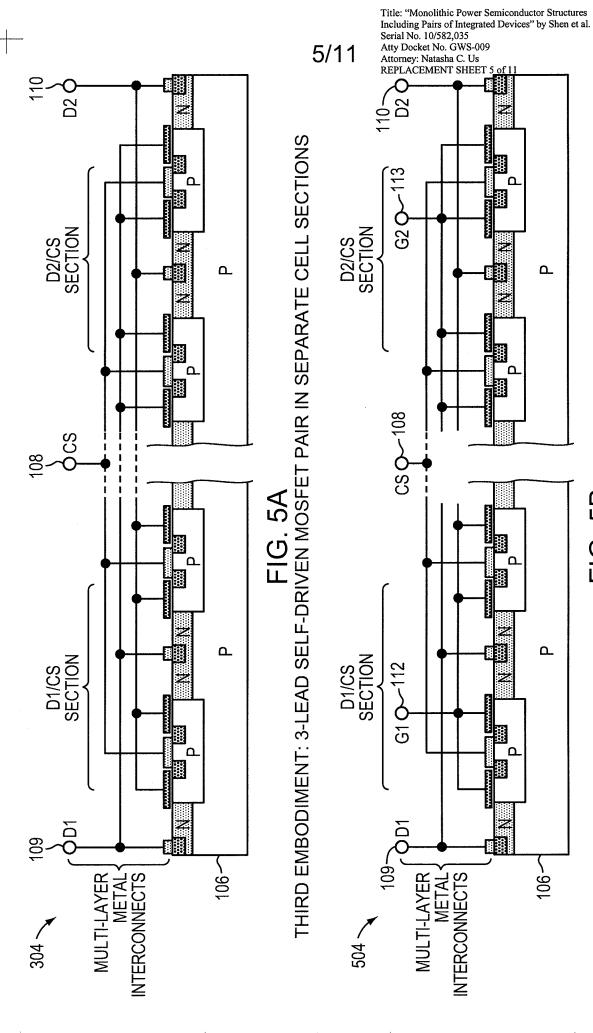


FIG. 5B FOURTH EMBODIMENT: 5-LEAD EXTERNAL-DRIVEN MOSFET PAIR IN SEPARATE CELL SECTIONS

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1. DISCRETE POWER SEMICONDUCTOR DEVICE COMPRISED OF MULTIPLE TRANSISTORS WITH COMMON SOURCE CONNECTION WITH ONE OR MORE TRANSISTORS HAVING ELECTRICALLY ISOLATED DRAIN AND GATE CONNECTIONS

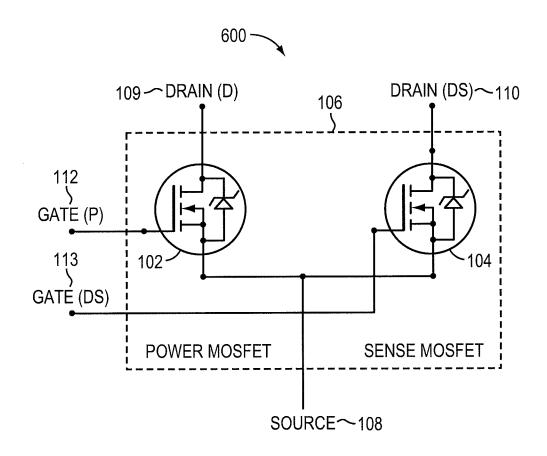
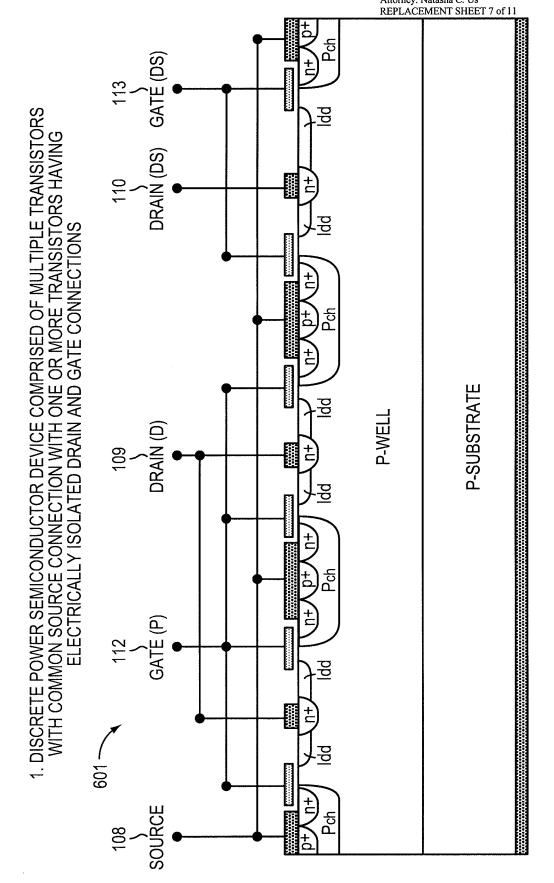


FIG. 6

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CROSS-SECTIONAL DIAGRAM OF A POWER MOSFET WITH INTEGRATED DRAIN SENSE FIG. 7

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2. DISCRETE POWER SEMICONDUCTOR DEVICE COMPRISED OF MULTIPLE TRANSISTORS WITH COMMON SOURCE AND GATE CONNECTIONS WITH ONE OR MORE TRANSISTORS HAVING ELECTRICALLY ISOLATED DRAIN CONNECTIONS

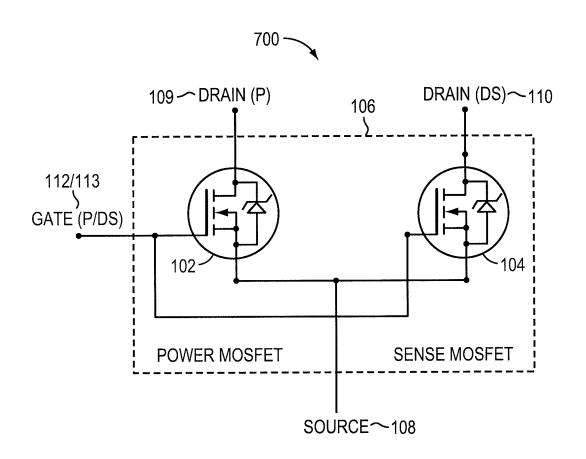
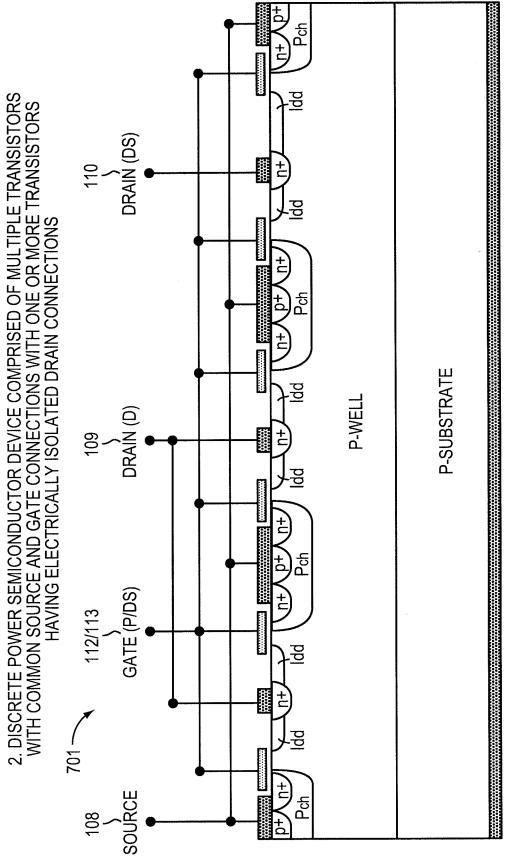


FIG. 8

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CROSS-SECTIONAL DIAGRAM OF A POWER MOSFET WITH INTEGRATED DRAIN SENSE FIG. 9

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3. DISCRETE POWER SEMICONDUCTOR DEVICE COMPRISED OF MULTIPLE TRANSISTORS WITH COMMON SOURCE AND GATE CONNECTIONS WITH ONE OR MORE TRANSISTORS HAVING SUBSTANTIALLY DIFFERENT THRESHOLD VOLTAGES AND ELECTRICALLY ISOLATED DRAIN CONNECTIONS

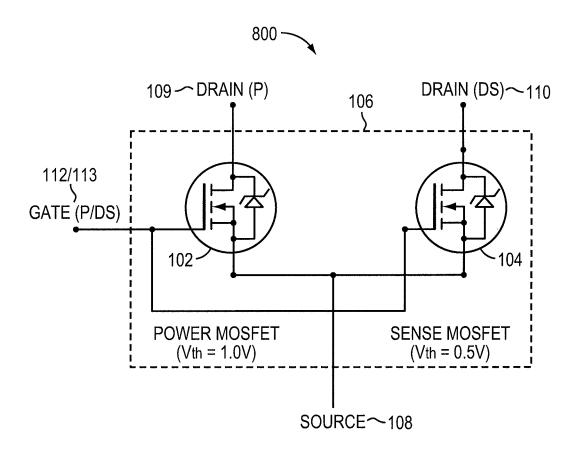
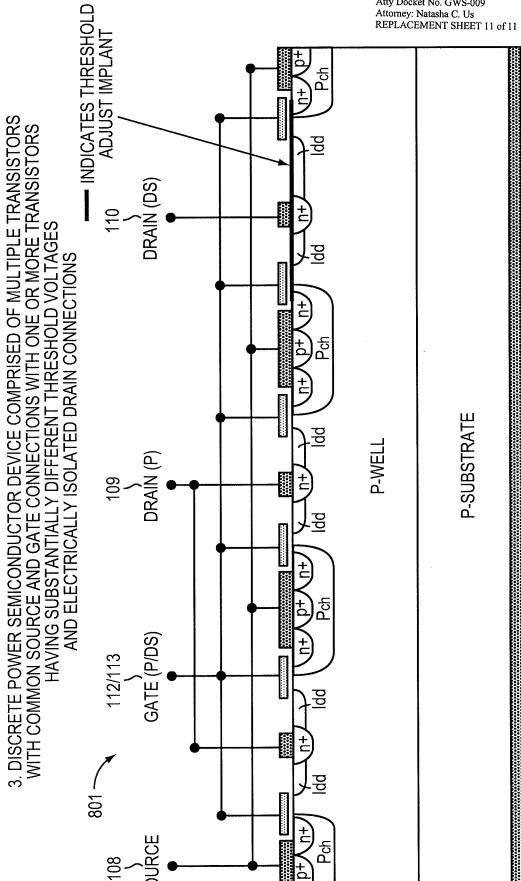


FIG. 10

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CROSS-SECTIONAL DIAGRAM OF A POWER MOSFET WITH INTEGRATED DRAIN SENSE FIG. 11